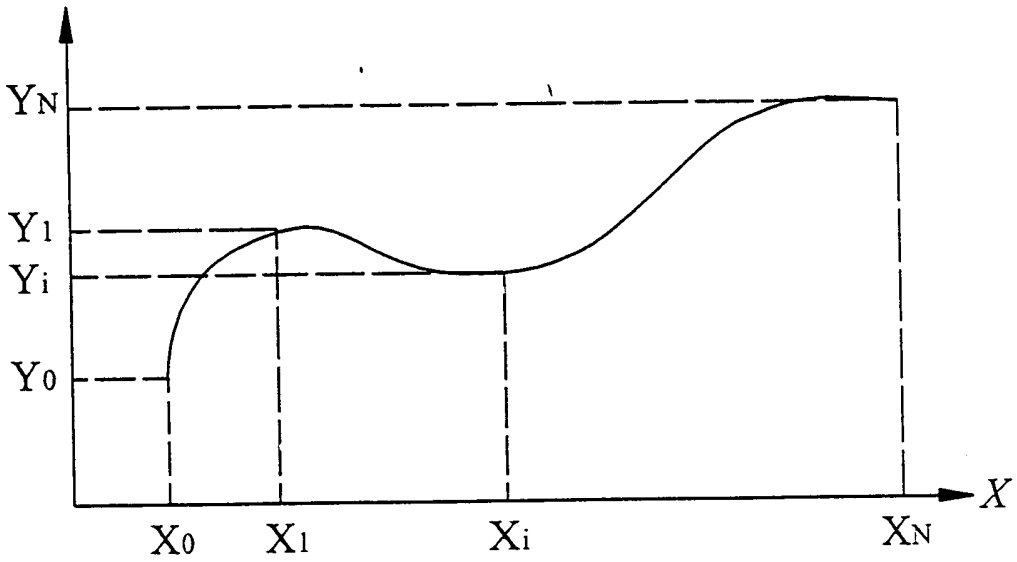
FIG.1



PLOTTING OF A CURVE ALONG
THE DESIGNATED POINTS

FIG2A

COMPARISON OF THE METHOD PRESENTED
INTHIS PATENT AND THE "NEAREST NEIGHBOR" METHOD

ORIGINAL IMAGE (BMP-FORMAT,
DIMENSIONS 64 x 128 PIXELS)

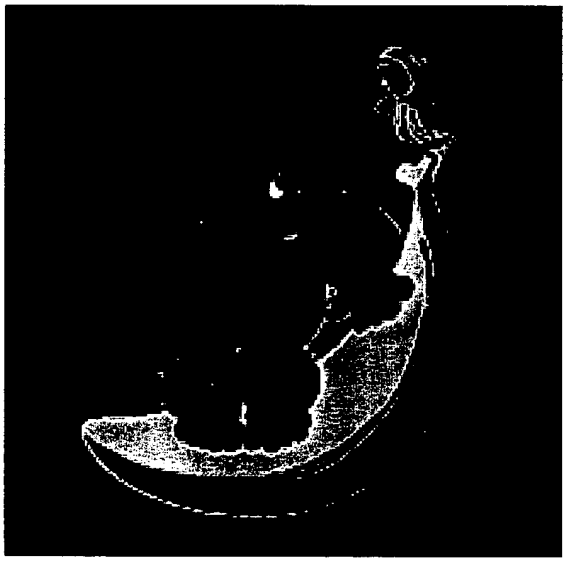
ENLARGED IMAGE USING
THE "NEAREST NEIGHBOR"
METHOD (BMP-FORMAT,
DIMENSIONS 128 x 256 PIXELS)

ENLARGED IMAGE USING
THE METHOD DISCRIBED IN THIS
PATENT (BMP-FORMAT,
DIMENSIONS 128 x 256 PIXELS)

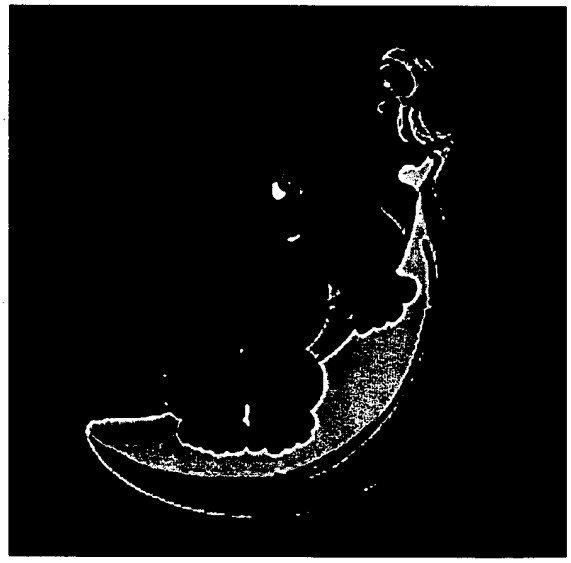
FIG2B

A COMPARISON OF THE METHOD PRESENTED
IN THIS PATENT AND THE "NEAREST NEIGHBOR" METHOD

ORIGINAL IMAGE (BMP-FORMAT,
DIMENSIONS 200 x 200 PIXELS)



ENLARGED IMAGE USING
THE "NEAREST NEIGHBOR"
METHOD (BMP-FORMAT,
DIMENSIONS 400 x 400 PIXELS)



ENLARGED IMAGE USING
THE METHOD DISCRIBED IN THIS
PATENT (BMP-FORMAT,
DIMENSIONS 400 x 400 PIXELS)

FIG.3

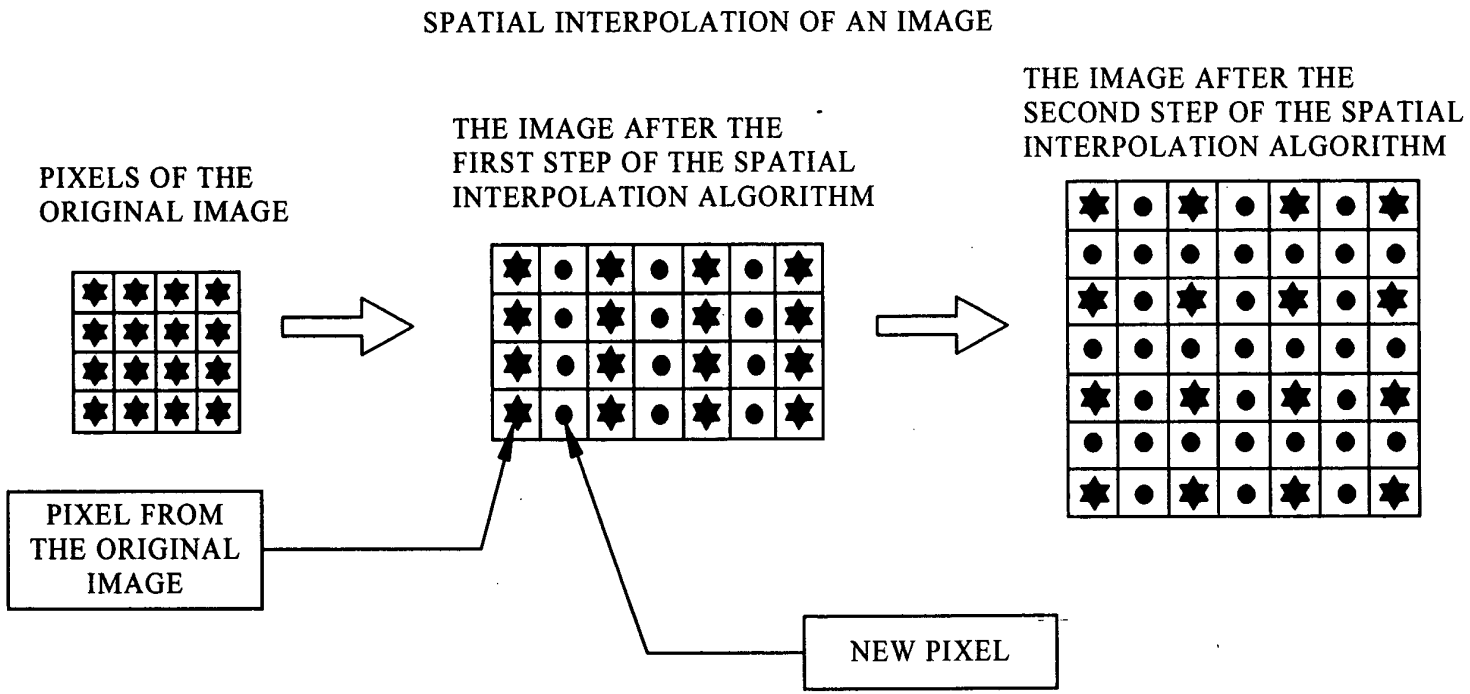
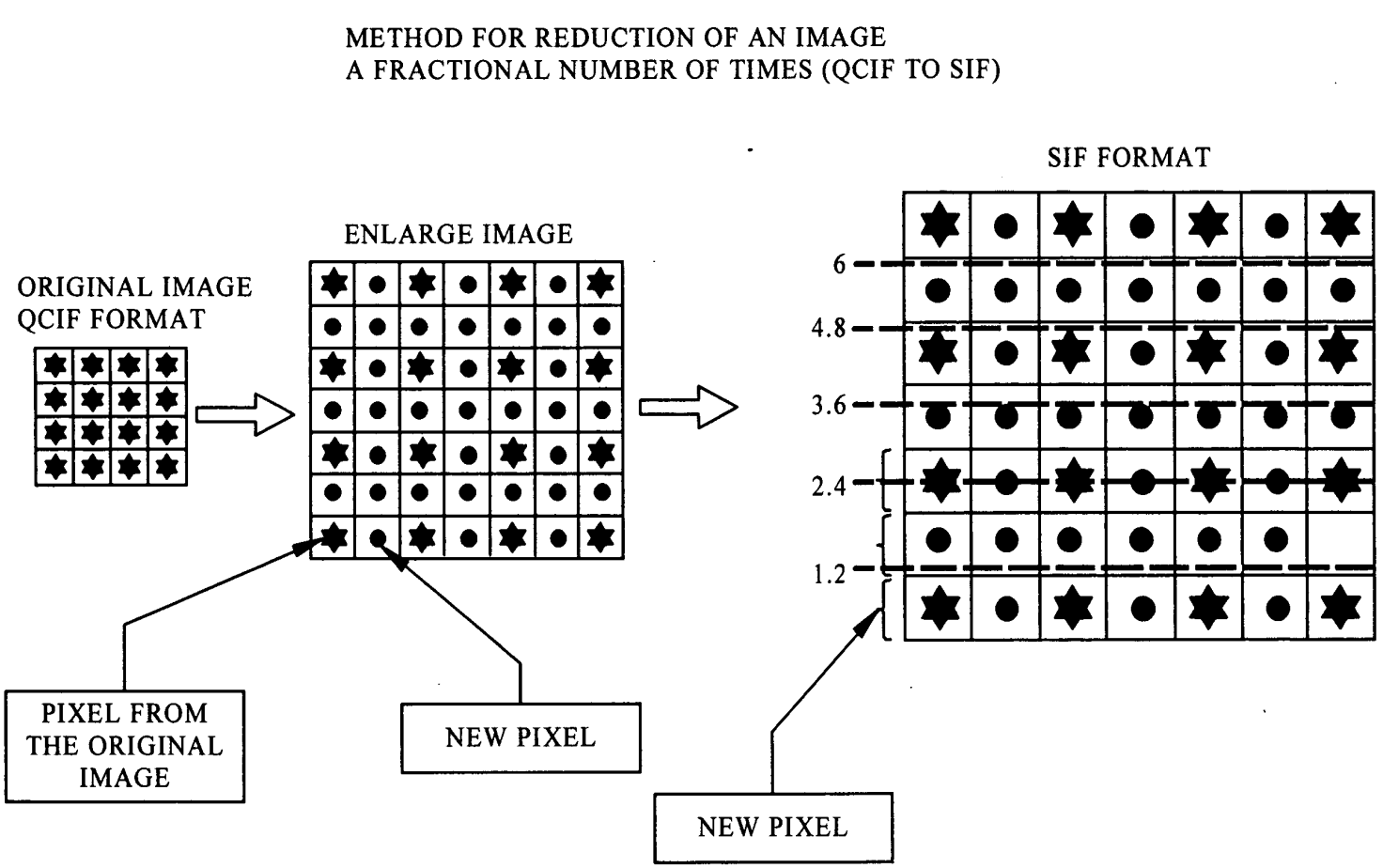

SPATIAL INTERPOLATION OF AN IMAGE
PIXELS OF THE ORIGINAL IMAGE
THE IMAGE AFTER THE FIRST STEP OF THE SPATIAL INTERPOLATION ALGORITHM
THE IMAGE AFTER THE SECOND STEP OF THE SPATIAL INTERPOLATION ALGORITHM
PIXEL FROM THE ORIGINAL IMAGE
NEW PIXEL

FIG.4


METHOD FOR REDUCTION OF AN IMAGE
A FRACTIONAL NUMBER OF TIMES (QCIF TO SIF)
ORIGINAL IMAGE
QCIF FORMAT
ENLARGE IMAGE
SIF FORMAT
6
4.8
3.6
2.4
1.2
PIXEL FROM THE ORIGINAL IMAGE
NEW PIXEL
NEW PIXEL

SCALING OF QCIF → SIF (A FRAME FROM THE VIDEO SEQUENCE "CHARS")

QCIF

x2

SIF

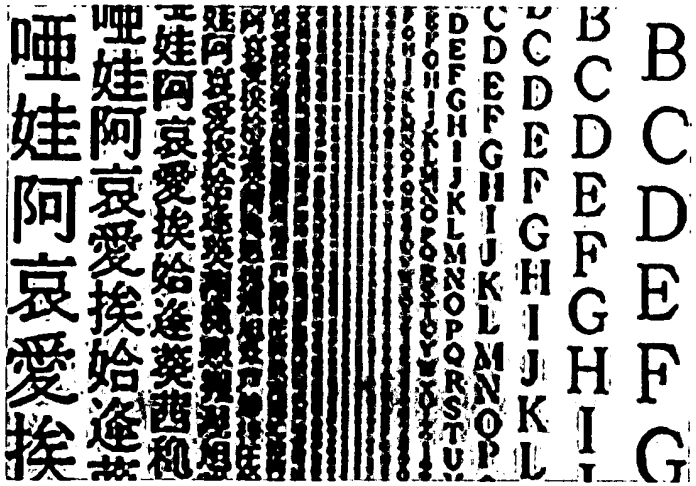


FIG.5

SCALING OF QCIF → SIF (A FRAME FROM THE VIDEO SEQUENCE "CHURCH")

QCIF

x2

SIF

FIG.6

SCALING OF QCIF → SIF (A FRAME FROM THE VIDEO SEQUENCE "GREEN")

QCIF

x2

SIF

FIG.7